



PATENT APPLICATION
Do. No. 4234-009

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Dae-Woo LEE

Serial No. 09/712,029

Examiner: Goff II, John L.

Confirmation No. 9120

Filed: November 13, 2002

Group Art Unit: 1733

For: METHOD OF MANUFACTURING UNVULCANIZED ADHESIVE
WATERPROOF SHEET AND CONSTRUCTION METHOD USING
THE SAME

BOX NON FEE AMENDMENT
Assistant Commissioner for Patents
Washington, D.C. 20231

RESPONSE TO OFFICE ACTION

Responsive to the Office Action, dated September 23, 2002, please amend the
application as follows.

IN THE SPECIFICATION

Page 3, starting at line 31, and ending at line 34:

The age resister includes at least one selected from a group consisting of
phenylisopropyl-p-phenylenediamine, polymerized trimethyl dihydroquinoline, and
styrenated phenol. The adhesion-providing agent includes at least one of tragacanth rubber
and polyvinyl poval (PVA) that is affined with water.

Page 6, starting at line 3, and ending at line 14:

The unvulcanized adhesive rubber sheet is used for unexposure. Durability of the
sheet is over the warranty (five years). In order to maintain a waterproof function for a long
time, it is required to add a special age resister to the sheet. Therefore, the present invention
uses age resisters, "3C" (phenylisopropyl-p-phenylenediamine), "RD" (Polymerized
trimethyl dihydroquinoline), and "SP" (Styrenated phenol). The "3C" is good for heat
resistance, flexure-crack resistance, oxidation resistance, and ozone resistance. The "RD" is
good for heat resistance and oxidation resistance. And, the "SP" is good for flexure
resistance, oxidation resistance, and ozone resistance. Adding such age resisters to the sheet,

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Responsive to the Office Action dated September 23, 2002, enclosed is an amendment in the above-identified application. The fee has been calculated as shown below.

CLAIMS AS AMENDED					
For:	Number After Amendment	Previous Number	Extra	Rate	Additional Fee
Total Claims	5	-20*	0	x \$ 9 =	\$0
Independent Claims	1	-3**	0	x \$42 =	\$0
TOTAL ADDITIONAL FEE FOR THIS AMENDMENT					\$0

*greater of twenty (20) or number for which fee has been paid

**greater of three (3) or number for which fee has been paid

☒ Any deficiency or overpayment should be charged or credited to deposit account number 13-1703.



20575

PATENT TRADEMARK OFFICE

Respectfully submitted,

MARGER JOHNSON & McCOLLOM, P.C.

Hosoon Lee

Limited Recognition Under 37 CFR § 10.9(b)

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ON 12-23-02

Judy Higgins